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The **Protein Structure Initiative (PSI)** is a federal, university, and industry effort aimed at dramatically reducing the costs and lessening the time it takes to determine a three-dimensional protein structure. The long-range goal of the PSI is to make the three-dimensional atomic-level structures of most proteins easily obtainable from knowledge of their corresponding DNA sequences.

Expected benefits from the PSI include: structural descriptions to help researchers discover the functions of proteins, design experiments, and solve other key biomedical problems; faster identification of promising new structure-based medicines; better therapeutics for treating both genetic and infectious diseases; and development of technology and methodology for protein production and crystallography.

For more details about the PSI's goals, organization, and benefits, see the [PSI Mission Statement](#). Additional information about the PSI can be found under the links listed below.

PSI Centers

List of PSI-funded centers, including links to center Web sites, brief descriptions of missions, and principal investigators.

News & Background

News releases, frequently asked questions, media contacts, and more.

Meetings & Reports

Information about current and past meetings, including reports on workshops and other events.

Funding Opportunities

Program announcements, requests for applications, and other information for applicants.

Data & Image Resources

Links to related scientific resources including the Protein Target Database, the Protein Data Bank, and the National Center for Biotechnology Information, as well as images of the PSI logo for use in slide presentations and elsewhere.

Advisory Committee

Information about the PSI Advisory Committee, a working group of the National Advisory General Medical Sciences Council.

For further information on the Protein Structure Initiative, contact:

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**Scientists
from
Argonne
National**

Laboratory's Advanced Photon Source display the first X-ray diffraction pattern obtained from a protein crystal using a split X-ray beam. [More...](#)

New Requests for Applications

- [Large-Scale Centers for the Protein Structure Initiative](#)
RFA-GM-05-001, April 1, 2004
 - [Information for Applicants](#)
- [Specialized Centers for the Protein Structure Initiative](#)
RFA-GM-05-002, April 1, 2004
 - [Information for Applicants](#)

National Academy of Sciences Study on Intellectual Property Rights in Genomics and Protein-Related Research

NIGMS is playing a major role in this study, both as a funder and as a resource.

Comparative Modeling Initiative

Summary of a discussion at the January 2004 meeting of the National Advisory General Medical Sciences Council.

PSI Annual Meeting 2003

A [summary report](#), as well as

electronic versions of presentations, of the December 2 Joint Meeting of the PSI Advisory Committee and the PSI Research Center Principal Investigators are now available.

PSI Target Selection Workshop

A report on the PSI Workshop on Target Selection (held Nov. 13-14, 2003) is now available -- click [here](#).

PSI Comparative Modeling Workshop

A report on the PSI Workshop on Comparative Modeling (held October 20-21, 2003) is now available -- click [here](#).

New Funding

[Supplements for Functional Studies Based on High Resolution Structures Obtained in the Protein Structure Initiative](#)

- [Notice NOT-GM-03-108 \(NIH Guide to Grants and Contracts, June 25, 2003\)](#)

Featured Publication

The Structures of Life

This full-color booklet, geared toward an advanced high school or early college-level audience, explains how structural biology provides insight into health and disease and is useful in creating new medications. The booklet also features "Student Snapshots" designed to inspire young people to consider careers in biomedical research.



Fact Sheet

NIGMS-Supported Structure-Based Drug Design Saves Lives

This fact sheet describes how structural biology points the way to important medicines such as drugs for treating AIDS, cancer, arthritis, glaucoma, and the flu.

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